Contents

Able KP, Able MA: Manipulations of polarized skylight calibrate magnetic orientation in a migratory bird 351
Able MA → Able KP
Aggio J → Hermitte G
Aghajanian JG → Grant AJ
Alekseyev E → Gribakin F
Almaas TJ → Hansson BS
Alones V → Mellon D Jr
Anton S → Hansson BS
Ashley-Ross MA: Patterns of hind limb motor output during walking in the salamander *Dicamptodon tenebrosus*, with comparisons to other tetrapods 273
Atkins G → Stumpner A
Au WWL → Dolphin WF

Bacon JP → Stern M
Baron J → Collett TS
Barth FG → Friedel T
Bässler U → Sauer AE
Beck A → Strotmann J
Bell C, Dunn K, Hall C, Caputi A: Electric organ corollary discharge pathways in mormyrid fish. I. The mesencephalic command associated nucleus 449
Bell C, Emde G von der: Electric organ corollary discharge pathways in mormyrid fish. II. The medial juxtalabar nucleus 463
Bell C → Hall C
Berg BG, Mustaparta H: The significance of major pheromone components and interspecific signals as expressed by receptor neurons in the oriental tobacco budworm moth, *Helicoverpa assulta* 683
Berg BG, Tumlinson JH, Mustaparta H: Chemical communication in heliothine moths: IV. Receptor neuron responses to pheromone compounds and formate analogues in the male tobacco budworm moth *Heliothis virescens* 527
Berg BG → Boo KS
Boatright-Horowitz SS, Simmons AM: Postmetamorphic changes in auditory sensitivity of the bullfrog midbrain 577
Boo KS, Park KC, Hall DR, Cork A, Berg BG, Mustaparta H: (Z)-9-tetradecenal: a potent inhibitor of pheromone-mediated communication in the oriental tobacco budworm, *Helicoverpa assulta* 695
Boyan BD → Pedrozo HA
Breer H → Strotmann J
Breithaupt T, Schmitz B, Tautz J: Hydrodynamic orientation of crayfish (*Procambarus clarkii*) to swimming fish prey 481
Büschges A → Sauer AE

Camhi JM → Levi R
Caputi A → Bell C
Carlton T, McVean A: The role of touch, pressure and nociceptive mechanoreceptors of the leech in unrestrained behaviour 781
Cassone VM → Lu J
Chittka L → Giurfa M
Christensen TA, Mustaparta H, Hildebrand JG: Chemical communication in heliothine moths: VI. Parallel pathways for information processing in the macroglomerular complex of the male tobacco budworm moth *Heliothis virescens* 545
Collett TS, Baron J: Learnt sensori-motor mappings in honeybees: interpolation and its possible relevance to navigation 287
Collett TS: Making learning easy: the acquisition of visual information during the orientation flights of social wasps 737
Collin SP → Pettigrew JD
Contzen K, Richter K-H, Nagy K: Selective inhibition of the phospholipase C pathway blocks one light-activated current component in *Limulus* photoreceptor 601
Cork A → Boo KS

Dean DD → Pedrozo HA
Derby CD → Wood DE
Diekamp B, Gerhardt HC: Selective phonotaxis to advertisement calls in the gray treefrog *Hyla versicolor*: behavioral experiments and neurophysiological correlates 173
Dittrich M: A quantitative model of successive color induction in the honeybee 219
Dittrich M: Time course of color induction in the honeybee 207
Dolphin WF, Au WWL, Nachtigall PE, Pawloski J: Modulation rate transfer functions to low-frequency carriers in three species of cetaceans 235
Douglas RH, Partridge JC, Hope AJ: Visual and lenticular pigments in the eyes of demersal deep-sea fishes 111
Driesang RB → Sauer AE
Dümmler B → Krüppel T
Dunn K → Bell C

Ellingson JM, Fleishman LJ, Loew ER: Visual pigments and spectral sensitivity of the diurnal gecko *Gonatodes albogularis* 559
Emde G von der, Zelick R: Behavioral detection of electric signal waveform distortion in the weakly electric fish, *Gnathonemus petersii* 493
Emde G von der → Bell C

Facciponte G, Miksys S, Lange AB: The innervation of a ventral abdominal protractor muscle in *Locusta* 645
Fleishman LJ → Ellingson JM
Friedel T, Barth FG: The response of interneurons in the spider CNS (*Cupiennius salei* Keyserling) to vibratory courtship signals 159
Friesen WO → O'Gara BA
Frye MA, Olberg RM: Visual receptive field properties of feature detecting neurons in the dragonfly 569

Gerhardt HC → Diekamp B
Gewecke M → Stern M
Giurfa M, Núñez J, Chittka L, Menzel R: Colour preferences of flower-naive honeybees 247
Gleeson RA → Wood DE
Gogala M → Gribakin F
Goshima S → Kijima H
Grant AJ, Wigton BE, Aghajanian JG, O'Connell RJ: Electrophysiological responses of receptor neurons in mosquito maxillary palp sensilla to carbon dioxide 389
Gribakin F, Alekseyev E, Shukolyukov S, Gogala M: Unconventional ultraviolet sensitivity spectra of *Ascalaphus* (Insecta, Neuroptera) 201
Gwinner E, König S, Zeman M: Endogenous gonadal, LH and molt rhythms in tropical stonechats: Effect of pair bond on period, amplitude, and pattern of circannual cycles 73

Hall C, Bell C, Zelick R: Behavioral evidence of a latency code for stimulus intensity in mormyrid electric fish 29
Hall C → Bell C
Hall DR → Boo KS
Hansson BS, Almaas TJ, Anton S: Chemical communication in neliothine moths: V. Antennal lobe projection patterns of pheromone-detecting olfactory receptor neurons in the male *Heliothis virescens* (Lepidoptera: Noctuidae) 535
Hardie RC: Effects of intracellular Ca^{2+} chelation on the light response in *Drosophila*photoreceptors 707
Harrison JL → Pedrozo HA
Hatt H, Rosenheimer JL, Smith DO: Proton-activated currents in chick spinal motoneurons 503
Helversen D von, Helversen O von: Acoustic pattern recognition and orientation in orthopteran insects: parallel or serial processing 767
Helversen O von → Helversen D von
Hermitte G, Aggio J, Maldonado H: Failure of interocular transfer in two types of learning in the crab *Chasmagnathus* 371
Hildebrand JG → Christensen TA
Hope AJ → Douglas RH

Jacobs GA → Landolfa MA
Jansonius NM → Smits RP

Katkowska MJ: The effect of external cesium ions on the muscle fibre resting potential in mealworm larva (*Tenebrio molitor* L.) 519

Contents

Able KP, Able MA: Manipulations of polarized skylight calibrate magnetic orientation in a migratory bird 351
Able MA → Able KP
Aggio J → Hermitte G
Aghajanian JG → Grant AJ
Alekseyev E → Gribakin F
Almaas TJ → Hansson BS
Alones V → Mellon D Jr
Anton S → Hansson BS
Ashley-Ross MA: Patterns of hind limb motor output during walking in the salamander *Dicamptodon tenebrosus*, with comparisons to other tetrapods 273
Atkins G → Stumpner A
Au WWL → Dolphin WF

Bacon JP → Stern M
Baron J → Collett TS
Barth FG → Friedel T
Bässler U → Sauer AE
Beck A → Strotmann J
Bell C, Dunn K, Hall C, Caputi A: Electric organ corollary discharge pathways in mormyrid fish. I. The mesencephalic command associated nucleus 449
Bell C, Emde G von der: Electric organ corollary discharge pathways in mormyrid fish. II. The medial juxtalabar nucleus 463
Bell C → Hall C
Berg BG, Mustaparta H: The significance of major pheromone components and interspecific signals as expressed by receptor neurons in the oriental tobacco budworm moth, *Helicoverpa assulta* 683
Berg BG, Tumlinson JH, Mustaparta H: Chemical communication in heliothine moths: IV. Receptor neuron responses to pheromone compounds and formate analogues in the male tobacco budworm moth *Heliothis virescens* 527
Berg BG → Boo KS
Boatright-Horowitz SS, Simmons AM: Postmetamorphic changes in auditory sensitivity of the bullfrog midbrain 577
Boo KS, Park KC, Hall DR, Cork A, Berg BG, Mustaparta H: (Z)-9-tetradecenal: a potent inhibitor of pheromone-mediated communication in the oriental tobacco budworm, *Helicoverpa assulta* 695
Boyan BD → Pedrozo HA
Breer H → Strotmann J
Breithaupt T, Schmitz B, Tautz J: Hydrodynamic orientation of crayfish (*Procambarus clarkii*) to swimming fish prey 481
Büschges A → Sauer AE

Camhi JM → Levi R
Caputi A → Bell C
Carlton T, McVean A: The role of touch, pressure and nociceptive mechanoreceptors of the leech in unrestrained behaviour 781
Cassone VM → Lu J
Chittka L → Giurfa M
Christensen TA, Mustaparta H, Hildebrand JG: Chemical communication in heliothine moths: VI. Parallel pathways for information processing in the macroglomerular complex of the male tobacco budworm moth *Heliothis virescens* 545
Collett TS, Baron J: Learnt sensori-motor mappings in honeybees: interpolation and its possible relevance to navigation 287
Collett TS: Making learning easy: the acquisition of visual information during the orientation flights of social wasps 737
Collin SP → Pettigrew JD
Contzen K, Richter K-H, Nagy K: Selective inhibition of the phospholipase C pathway blocks one light-activated current component in *Limulus* photoreceptor 601
Cork A → Boo KS

Dean DD → Pedrozo HA
Derby CD → Wood DE
Diekamp B, Gerhardt HC: Selective phonotaxis to advertisement calls in the gray treefrog *Hyla versicolor*: behavioral experiments and neurophysiological correlates 173
Dittrich M: A quantitative model of successive color induction in the honeybee 219
Dittrich M: Time course of color induction in the honeybee 207
Dolphin WF, Au WWL, Nachtigall PE, Pawloski J: Modulation rate transfer functions to low-frequency carriers in three species of cetaceans 235
Douglas RH, Partridge JC, Hope AJ: Visual and lenticular pigments in the eyes of demersal deep-sea fishes 111
Driesang RB → Sauer AE
Dümmler B → Krüppel T
Dunn K → Bell C

Ellingson JM, Fleishman LJ, Loew ER: Visual pigments and spectral sensitivity of the diurnal gecko *Gonatodes albogularis* 559
Emde G von der, Zelick R: Behavioral detection of electric signal waveform distortion in the weakly electric fish, *Gnathonemus petersii* 493
Emde G von der → Bell C

Facciponte G, Miksys S, Lange AB: The innervation of a ventral abdominal protractor muscle in *Locusta* 645
Fleishman LJ → Ellingson JM
Friedel T, Barth FG: The response of interneurons in the spider CNS (*Cupiennius salei* Keyserling) to vibratory courtship signals 159
Friesen WO → O'Gara BA
Frye MA, Olberg RM: Visual receptive field properties of feature detecting neurons in the dragonfly 569

Gerhardt HC → Diekamp B
Gewecke M → Stern M
Giurfa M, Núñez J, Chittka L, Menzel R: Colour preferences of flower-naive honeybees 247
Gleeson RA → Wood DE
Gogala M → Gribakin F
Goshima S → Kijima H
Grant AJ, Wigton BE, Aghajanian JG, O'Connell RJ: Electrophysiological responses of receptor neurons in mosquito maxillary palp sensilla to carbon dioxide 389
Gribakin F, Alekseyev E, Shukolyukov S, Gogala M: Unconventional ultraviolet sensitivity spectra of *Ascalaphus* (Insecta, Neuroptera) 201
Gwinner E, König S, Zeman M: Endogenous gonadal, LH and molt rhythms in tropical stonechats: Effect of pair bond on period, amplitude, and pattern of circannual cycles 73

Hall C, Bell C, Zelick R: Behavioral evidence of a latency code for stimulus intensity in mormyrid electric fish 29
Hall C → Bell C
Hall DR → Boo KS
Hansson BS, Almaas TJ, Anton S: Chemical communication in neliothine moths: V. Antennal lobe projection patterns of pheromone-detecting olfactory receptor neurons in the male *Heliothis virescens* (Lepidoptera: Noctuidae) 535
Hardie RC: Effects of intracellular Ca^{2+} chelation on the light response in *Drosophila*photoreceptors 707
Harrison JL → Pedrozo HA
Hatt H, Rosenheimer JL, Smith DO: Proton-activated currents in chick spinal motoneurons 503
Helversen D von, Helversen O von: Acoustic pattern recognition and orientation in orthopteran insects: parallel or serial processing 767
Helversen O von → Helversen D von
Hermitte G, Aggio J, Maldonado H: Failure of interocular transfer in two types of learning in the crab *Chasmagnathus* 371
Hildebrand JG → Christensen TA
Hope AJ → Douglas RH

Jacobs GA → Landolfa MA
Jansonius NM → Smits RP

Katkowska MJ: The effect of external cesium ions on the muscle fibre resting potential in mealworm larva (*Tenebrio molitor* L.) 519

Kazawa T → Kijima H
Kijima H, Okada Y, Oiki S, Goshima S, Nagata K, Kazawa T: Free ion concentrations in receptor lymph and role of transepithelial voltage in the fly labellar taste receptor 123
Klante G, Steinlechner S: A short red light pulse during dark phase of LD-cycle perturbs the hamster's circadian clock 775
König S → Gwinner E
Kristan WB Jr → Shaw BK
Krüppel T, Rabe H, Dümmler B, Lueken W: The depolarizing mechanoreceptor potential and Ca/Mg receptor-current of the marine ciliate *Euplotes vannus* 511

Land M, Layne J: The visual control of behaviour in fiddler crabs. I. Resolution, thresholds and the role of the horizon 81
Land M, Layne J: The visual control of behaviour in fiddler crabs. II. Tracking control systems in courtship and defence 91
Landolfa MA, Jacobs GA: Direction sensitivity of the filiform hair population of the cricket cercal system 759
Landolfa MA, Miller JP: Stimulus-response properties of cricket cercal filiform receptors 749
Lange AB → Facciponte G
Layne J → Land M
Levi R, Camhi JM: Distributing coordinated motor outputs to several body segments: escape movements in the cockroach 427
Loew ER → Ellingson JM
Lu J, Zoran MJ, Cassone VM: Daily and circadian variation in the electroretinogram of the domestic fowl: effects of melatonin 299
Lubomudrov LM → Michel WC
Lueken W → Krüppel T
Lunau K, Maier EJ: Innate colour preferences of flower visitors 1

Maier EJ → Lunau K
Maldonado H → Hermitte G
McLean HA, Perry SF, Remmers JE: Two regions in the isolated brainstem of the frog that modulate respiratory-related activity 135
McVean A → Carlton T
Mellon D Jr, Alones V: Identification of three classes of multiglomerular, broad-spectrum neurons in the crayfish olfactory midbrain by correlated patterns of electrical activity and dendritic arborization 55
Menzel R → Giurfa M
Michel WC, Lubomudrov LM: Specificity and sensitivity of the olfactory organ of the zebrafish, *Danio rerio* 191
Midgley JM → Stern M
Miksys S → Facciponte G
Miller JP → Landolfa MA
Mizutani A, Toh Y: Optical and physiological properties of the larval visual system of the tiger beetle, *Cicindela chinensis* 591
Munro U, Wiltschko R: The role of skylight polarization in the orientation of a day-migrating bird species 357
Mustaparta H → Berg BG
Mustaparta H → Boo KS
Mustaparta H → Christensen TA

Nachtigall PE → Dolphin WF
Nagata K → Kijima H
Nagy K → Contzen K
Nakaya H → Pedrozo HA
Nelson ME, Paulin MG: Neural simulations of adaptive reafference suppression in the elasmobranch electrosensory system 723
Norekian TP: Prey capture phase of feeding behavior in the pteropod mollusc, *Clione limacina*: neuronal mechanisms 41
Núñez J → Giurfa M

Oiki S → Kijima H
Okada Y → Kijima H
Olberg RM → Frye MA
O'Connell RJ → Grant AJ
O'Gara BA, Friesen WO: Termination of leech swimming activity by a previously identified swim trigger neuron 627

Park KC → Boo KS
Partridge JC → Douglas RH
Paulin MG → Nelson ME
Pawloski J → Dolphin WF
Pedrozo HA, Schwartz Z, Nakaya H, Harrison JL, Dean DD, Wiederhold ML, Boyan BD: Carbonic anhydrase is required for statoconia homeostasis in organ cultures of statocysts from *Aplysia californica* 415
Perry SF → McLean HA
Pettigrew JD, Collin SP: Terrestrial optics in an aquatic eye: The sandlance, *Limnichthytes fasciatus* (Creediidae, Teleostei) 397

Rabe H → Krüppel T
Refinetti R: Body temperature and behaviour of golden hamsters (*Mesocricetus auratus*) and ground squirrels (*Spermophilus tridecemlineatus*) in a thermal gradient 701
Remmers JE → McLean HA
Richter K-H → Contzen K
Roces F: Variable thermal sensitivity as output of a circadian clock controlling the bimodal rhythm of temperature choice in the ant *Camponotus mus* 637
Ronacher B, Wehner R: Desert ants *Cataglyphis fortis* use self-induced optic flow to measure distances travelled 21
Rosenheimer JL → Hatt H

Sauer AE, Driesang RB, Büschges A, Bässler U: Information processing in the femur-tibia control loop of stick insects. 1. The response characteristics of two nonspiking interneurons result from parallel excitatory and inhibitory inputs 145
Schmitz B → Breithaupt T
Schwartz Z → Pedrozo HA
Schwind R: Spectral regions in which aquatic insects see reflected polarized light 439
Shaw BK, Kristan WB Jr: The whole-body shortening reflex of the medicinal leech: motor pattern, sensory basis, and interneuronal pathways 667
Shukolyukov S → Gribakin F
Simmons AM → Boatright-Horowitz SS
Smith DO → Hatt H
Smits RP, Jansonius NM, Stavenga DG: Dependence of receptor potential and redox state of mitochondrial cytochromes on oxygen fraction measured in the blowfly eye in vivo 105
Stavenga DG → Smits RP
Steinlechner S → Klante G
Stern M, Thompson KSJ, Zhou P, Watson DG, Midgley JM, Gewecke M, Bacon JP: Octopaminergic neurons in the locust brain: morphological, biochemical and electrophysiological characterisation of potential modulators of the visual system 611
Stout JF → Stumpner A
Strotmann J, Beck A, Breer H: Topographic patterns of odorant receptor expression in mammals: a comparative study 659
Stumpner A, Atkins G, Stout JF: Processing of unilateral and bilateral auditory inputs by the ON1 and L1 interneurons of the cricket *Acheta domesticus* and comparison to other cricket species 379

Tautz J → Breithaupt T
Teyke T: Food-attraction conditioning in the snail, *Helix pomatia* 409
Thompson KSJ → Stern M
Toh Y → Mizutani A
Tumlinson JH → Berg BG

Watson DG → Stern M
Wehner R → Ronacher B
Wiederhold ML → Pedrozo HA
Wigton BE → Grant AJ
Williamson R: Ionic currents in secondary sensory hair cells isolated from the statocysts of squid and cuttlefish 261
Wiltschko R → Munro U
Wiltschko R → Wiltschko W
Wiltschko W, Wiltschko R: Migratory orientation of European Robins is affected by the wavelength of light as well as by a magnetic pulse 363
Wood DE, Derby CD: Coordination and neuromuscular control of rhythmic behaviors in the blue crab, *Callinectes sapidus* 307
Wood DE, Gleeson RA, Derby CD: Modulation of behavior by biogenic amines and peptides in the blue crab, *Callinectes sapidus* 321
Wood DE: Neuromodulation of rhythmic motor patterns in the blue crab *Callinectes sapidus* by amines and the peptide proctolin 335

Zelick R → Emde G von der
Zelick R → Hall C
Zeman M → Gwinner E
Zhou P → Stern M
Zoran MJ → Lu J

Indexed in *Current Contents*